



City Council New Recreation Center Infrastructure Design Update

February 13, 2017



Purpose

- Share progress on Infrastructure Package A
- Obtain input on a new alternative for delivering Infrastructure Package B
- Review Next Steps



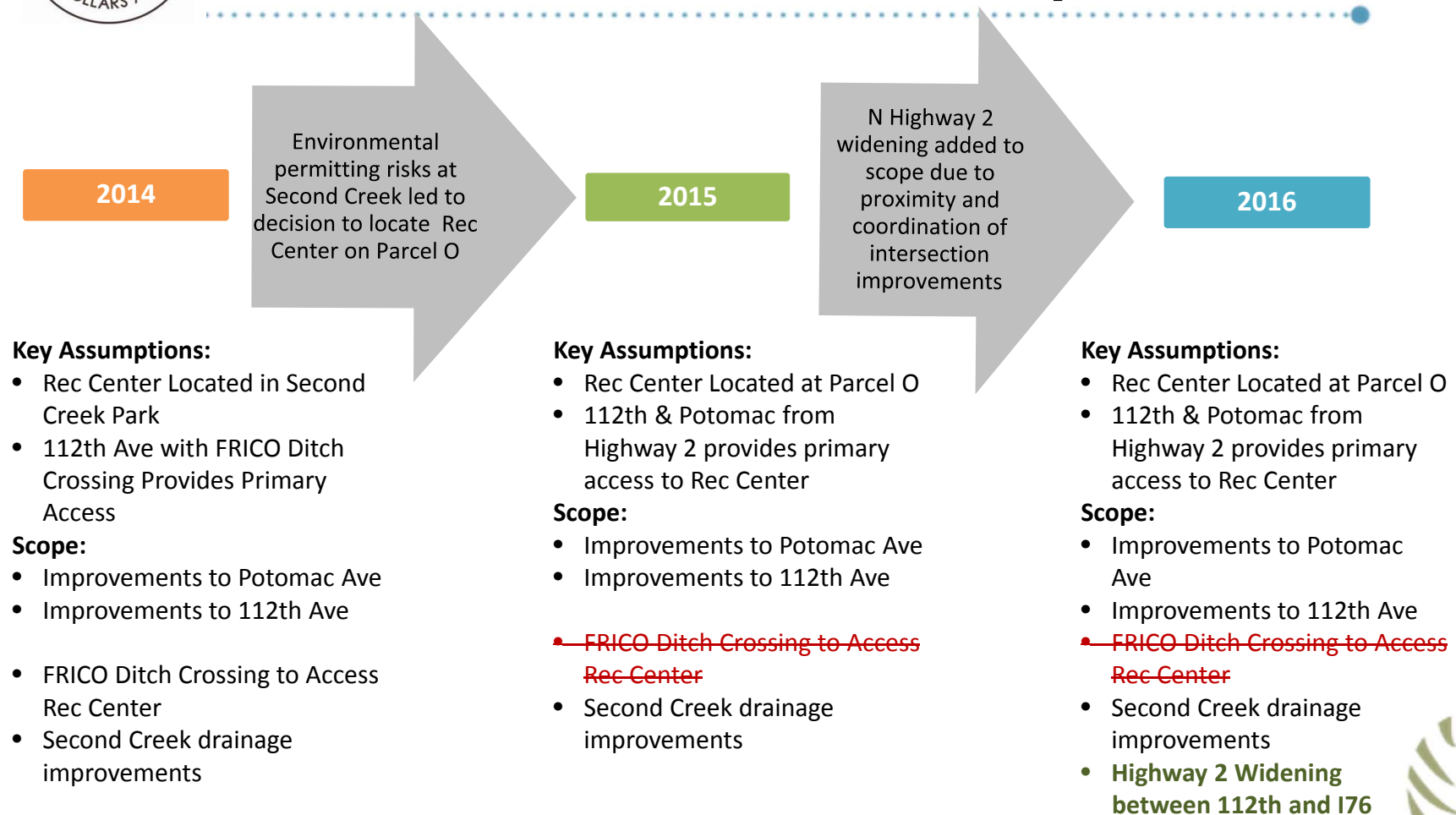


Infrastructure Project Overview





New Rec Center Infrastructure Scope Evolution





Infrastructure Package B Update

*Last Summer council endorsed the following concept
for Package B*



- Review comments from FRICO created serious challenges
 - FRICO would require a single span box culvert for the O'Brian Canal this requires 112th elevation to be raised and would classify it as a dam resulting in double the 100 year water storage needed
 - This has created construction feasibility and costs impacts



Goals for Infrastructure Package B

- Get 112th out of the 100 yr floodplain
- Avoid or minimize impacts to the FRICO Canal
- Complete east west connection
- Maximize future park space
- Minimize floodplain impacts
- Accomplish Second Creek Improvements includes re-establishing 2nd Creek Channel
- Minimize impacts to developers





Package B

Infrastructure Alternatives

- Alternative 1: Move 112th south to a narrow point in 2nd Creek, minimizing involvement with the FRICO canal
- Alternative 2: Keep 112th in its current alignment and do not raise it out of the 100 yr floodplain
- Alternative 3: Do not connect 112th as a road, master plan as an open space with bike and pedestrian connections, finish water quality and other drainage improvements needed for Package A and Rec Center



Summary of Benefits and Costs

Goal	Alternative #1	Alternative #2	Alternative #3
	\$24 M	\$27 M	\$15 M Does not include any costs for a relocated 112 th
Get 112 th out of the 100 yr floodplain	✓	✗	✓
Avoid or minimize impacts to the FRICO Canal	✓	✗	✓
Complete east west connection	✓	✓	✓
Maximize future park space	—	—	✓ +
Minimize floodplain impacts	✓	✗ Does not pass 100 yr flood	✓
Accomplish Second Creek Improvements includes re-establishing 2nd Creek Channel	✓ Does not preclude	✓ Does not preclude	✓ Does not preclude
Minimize impacts to developers	✗ Potential ROW impacts	✗ Potential Utility impacts	✓



Second Creek Infrastructure Next Steps

- We are recommending:
 - Moving forward with Alternative 3
 - Continue to working with Shea on the completing the east west connection
 - Continue to work on phasing options and construction timing that are compatible with Shea's development timeline and the City's Budget





Background Information

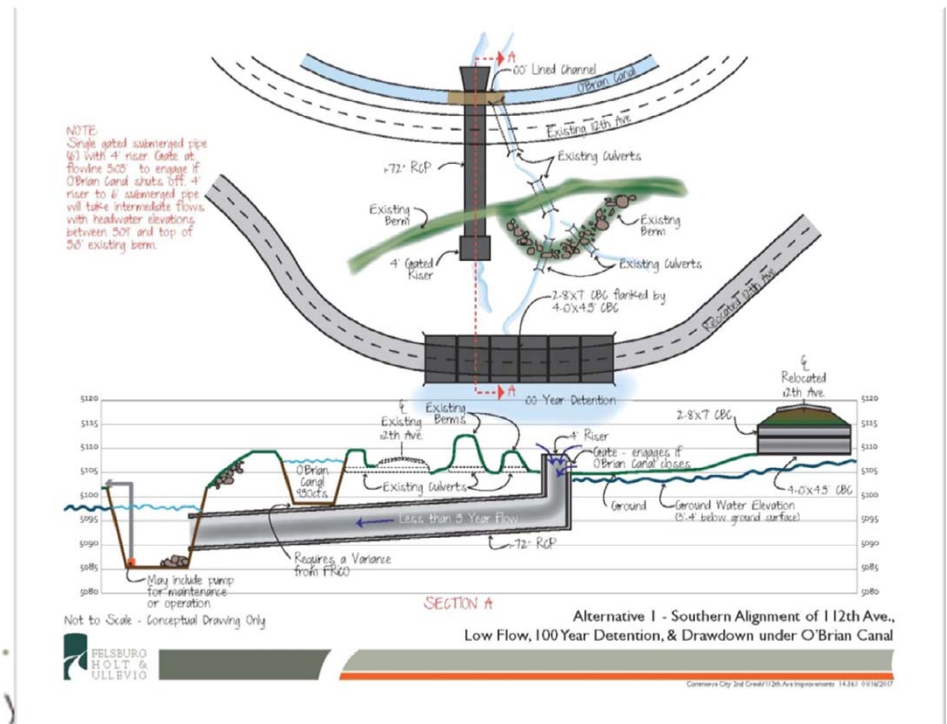
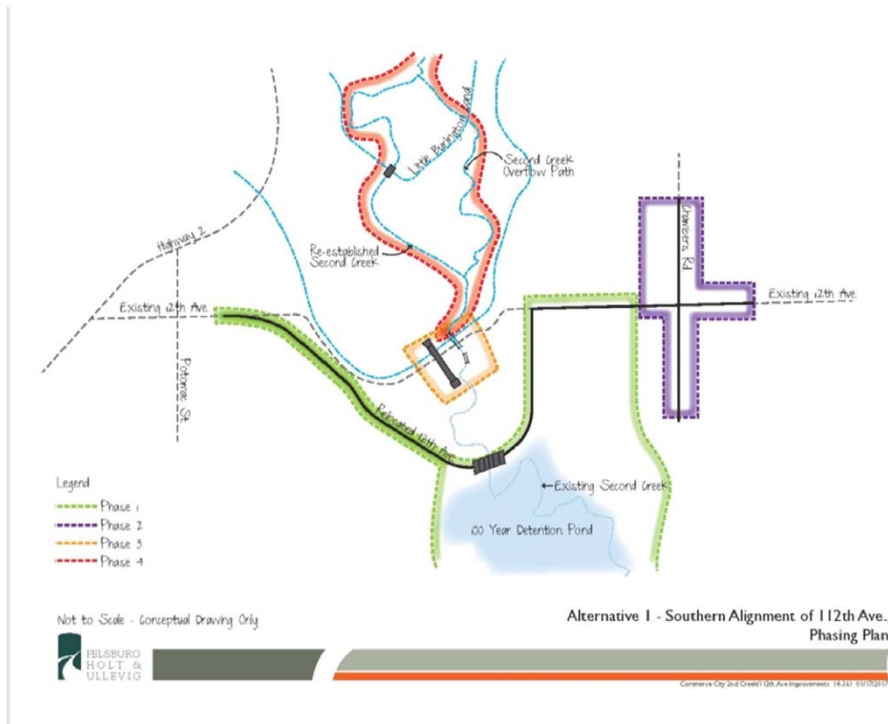


Package B Alternatives

Alternative 1: Move 112th south to a narrow point in 2nd Creek

– Key considerations

- Longer roadway and lower 112th roadway - would not be classified as dam
- Improvements near the FRICO canal could be done at a later date
- Shea has been supportive of this alternative



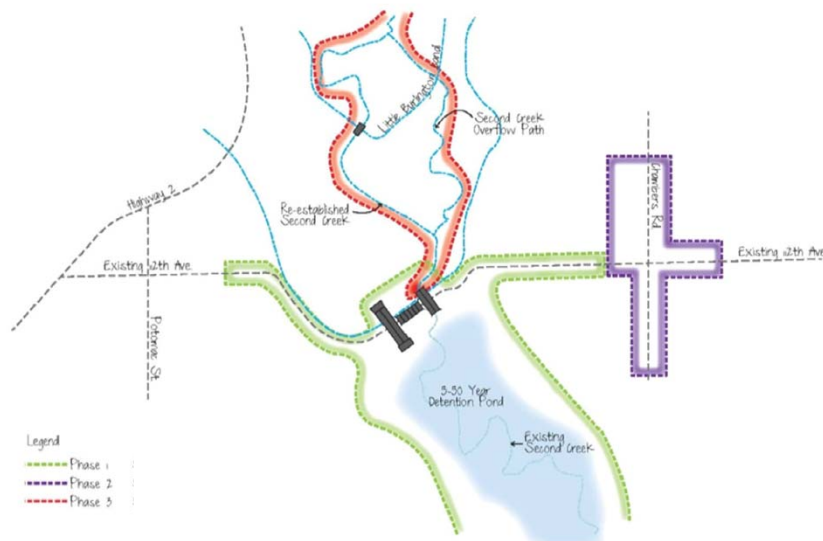


Package B Alternatives

Alternative 2: Keep 112th in its current alignment and do not move it out of the 100 yr floodplain

– Key considerations

- Shorter road. However, road will continue to flood maybe every 10yrs
- Does not provide detention for developed drainage flows
- **Not Recommended by Staff**

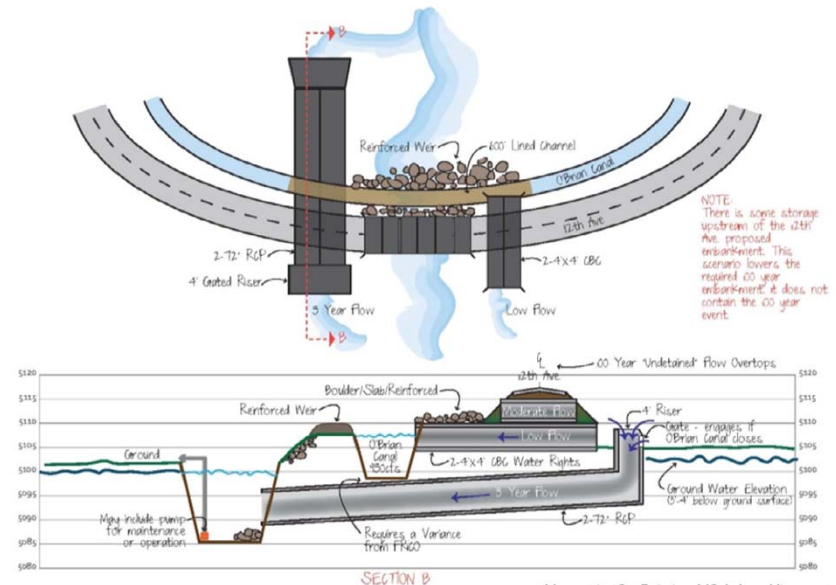


Not to Scale - Conceptual Drawing Only

Alternative 2 - Existing Alignment of 112th Ave., Phasing Plan



Commerce City 2nd Creek/112th Ave Improvements 14-201 9/10/2017



Not to Scale - Conceptual Drawing Only

Alternative 2 - Existing 112th Ave. Alignment Less than 50-Year Storm

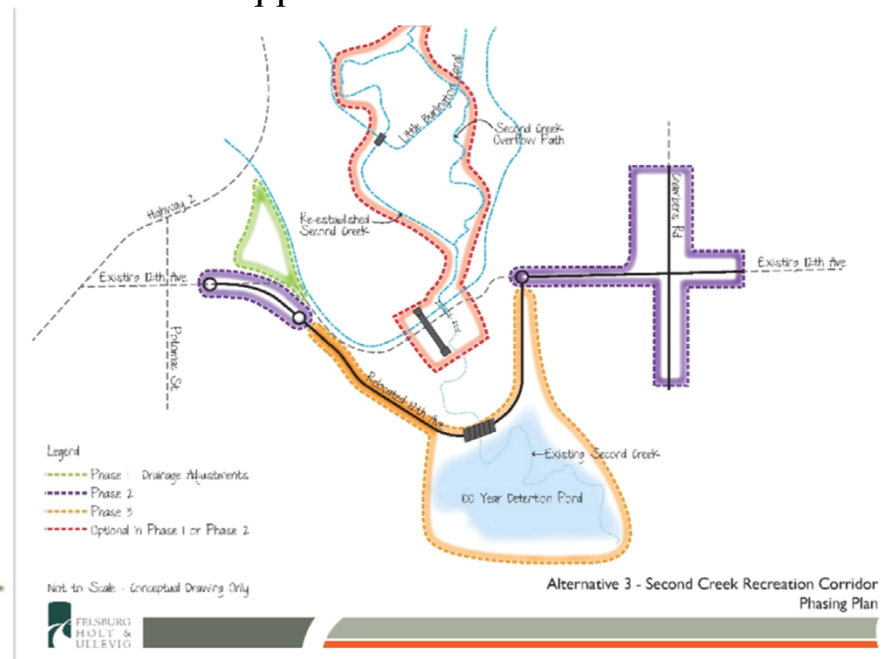


Commerce City 2nd Creek/112th Ave Improvements 14-201 9/10/2017



Infrastructure Package B Update

- Alternative 3: Do not connect 112th as a road, master plan as an open space with bike and pedestrian connections
 - Key considerations
 - Minimizes dollars spent now, creates a walking / biking connection
 - Does not preclude either of the roadway alternatives in the future
 - Shea does not oppose this alternative



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